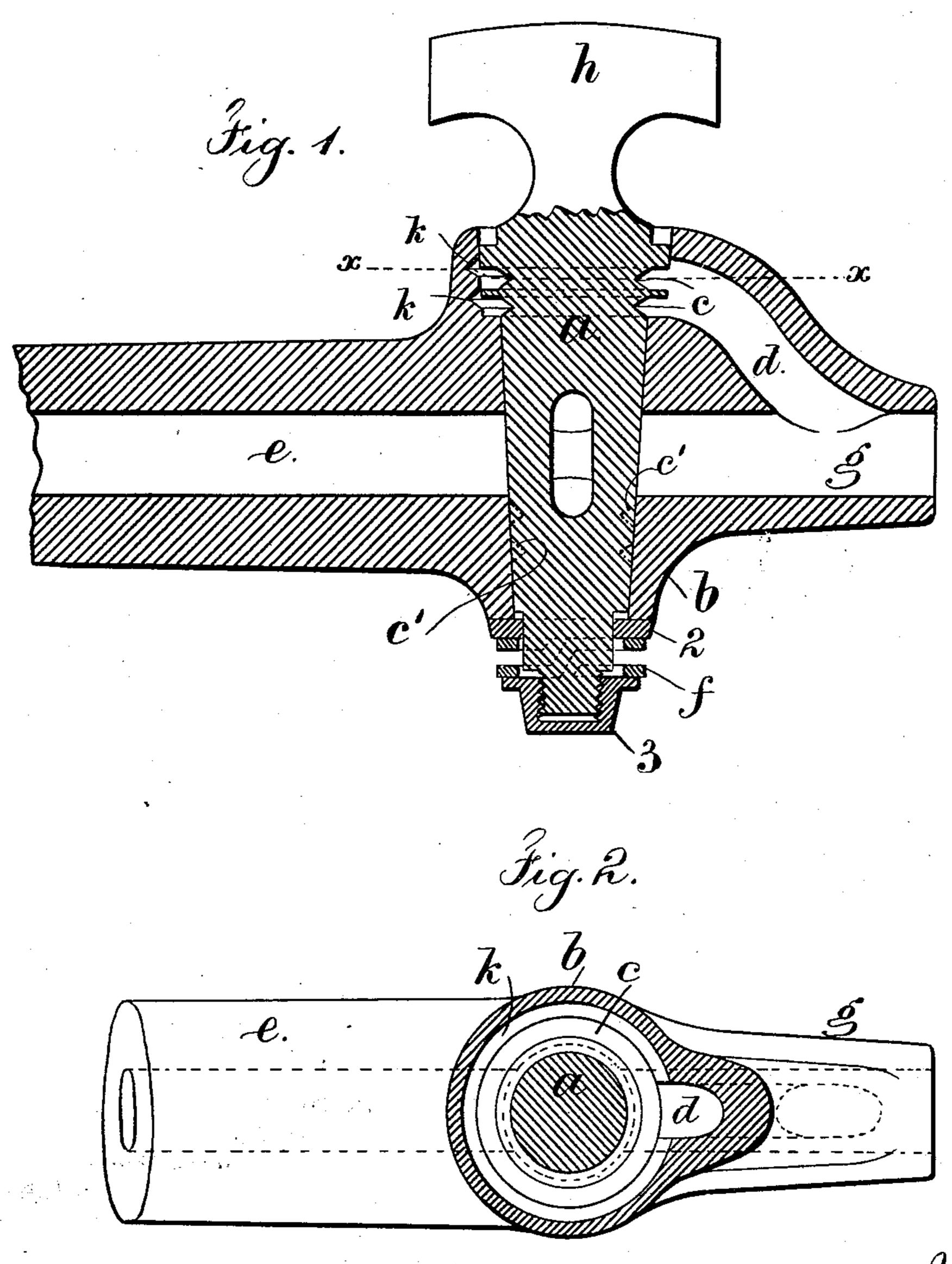
(No Model.)

W. H. SHAW. FAUCET.

No. 407,495.

Patented July 23, 1889.



Witnesses

Chart-Chmith

Inventor.

William H. Raw.

for Tennel W. Gerrell au

United States Patent Office.

WILLIAM H. SHAW, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF AND JOHN NOERMAN, OF SAME PLACE.

FAUCET

SPECIFICATION forming part of Letters Patent No. 407,495, dated July 23, 1889.

Application filed April 29, 1889. Serial No. 309,022. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. SHAW, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in 5 Faucets for Beer and Similar Liquids, of which

the following is a specification.

In drawing beer from a barrel through a faucet difficulty is experienced in consequence of the beer frothing and becoming mixed 10 with the atmosphere, and this is especially the case when the beer is first tapped, and loss results from the fact that the froth cannot be measured and has to be thrown away before the beer can be drawn in a sufficiently liquid

15 condition to be properly measured.

The object of my present invention is to prevent the formation or development of froth in the drawing of the beer. I have discovered that the froth is formed by the issuing of 20 a small jet under a heavy pressure, especially where the jet is restricted in its movement by striking against the opposite side of the faucet or other surface, so that it rebounds and forms bubbles and froth. To 25 prevent this operation, I check the momentum of the beer by diffusing it as a film upon an increasingly large area, and I allow the beer to trickle over the surface with a comparatively slow movement, and the beer in ad-30 hering to the surface is not commingled with the atmosphere to any considerable extent, and by the time the beer reaches the discharge-orifice it is moving at such a slow speed that frothing is effectually prevented.

In carrying out my invention I provide an endwise-movable plug to the faucet, so that instead of turning the faucet to allow the beer to discharge I move the plug endwise, and in so doing open a passage-way which is 40 very thin, and the beer spreads in all directions around the plug of the faucet, and the speed of the liquid decreases the farther it spreads from the point of admission, and I provide in the plug or in the barrel, or 45 both, annular recesses, into which the beer passes and runs slowly to the discharge-orifice. By this means the beer travels upon the surface of the metal in a thin film, and it is not discharged as a jet at any point; 50 hence the formation of foam is avoided, and 1

after the measure has been filled or nearly filled the faucet can be turned to admit the jet under pressure to pass into the measure to cause the beer to foam sufficiently to be acceptable to the person using the same.

In the drawings, Figure 1 is a section longitudinally of the improved faucet, and Fig. 2 is a transverse section at the line x x.

The faucet-plug a is to be of any desired size or shape, and it fits within the barrel b, 60 and is ground to place, as usual. At one end of the plug a is a T-head or turner h, and at the other end is a washer 2, a spring f, and a nut 3, the spring acting against the washer 2 to keep it tightly against the end of the bar- 65 rel b and the nut 3 being upon a screwat the end of the plug a. Around the plug a are annular grooves c, which grooves may be near the larger end, as represented in full lines, or they may be near the smaller end, as repre- 70 sented by dotted lines at c', or they may be near both ends of the plug a, and within the barrel there are annular grooves k, that open into the channel d, which passes to the bib or delivery-pipe q.

It will now be understood that when the faucet is closed the spring f draws the barrel a endwise and prevents the passage of liquid from the supply-pipe e of the faucet, and when beer or similar liquid is to be drawn the 80 T-head or turner h is grasped and the plug adrawn endwise against the action of the spring f, and in consequence of the plug abeing tapering there will be a narrow or thin space all around the plug a when this end 85 movement is given to said plug, and the beer will pass out laterally from the supply-pipe c and spread all around the plug a, and it will pass endwise of such plug into the grooves c and by the passage d to the bib g, in addi- 90 tion to the liquid passing directly to such passage g adjacent to the plug a, and in this manner the beer will travel upon the metallic surfaces in a thin film and will adhere thereto by the capillary attraction, and will not be- 95 come mixed with the atmosphere or turned into froth to any appreciable extent, and when the desired quantity of beer has been drawn in this manner the plug a can be turned to allow the discharge of the beer as 100

a jet into the measure for livening up or causing the beer to froth to whatever extent may be desired.

I claim as my invention—

5 1. The combination, with the faucet-barrel b, of the plug a, having around it grooves, and the spring f, whereby an end movement is allowed to the faucet for the passage of the beer or similar liquid around the plug without turning the same, substantially as set forth.

2. The faucet having a barrel b, plug a, and spring f, there being grooves around the plug or within the barrel, or both, for the passage

of liquid when an end motion is given to the

plug, substantially as set forth.

3. The combination, with the plug a and spring f, of the barrel b, having grooves around within the same, and the passage d, extending to the bib or delivery-pipe of the faucet, substantially as set forth.

Signed by me this 22d day of April, 1889.

WILLIAM H. SHAW.

Witnesses:

J. D. H. BERGEN, THOMAS BEECH.